

## **Supplementary material – Media composition**

### **Universal IVF Medium - Origio, Malov, Denmark, ref. #10310060A**

Use in clinical practice reported by Rosendahl et al. [1]

<b>Components</b>	<b>CAS#</b>	<b>Approx. %</b>
Calcium Chloride	10043-52-4	<0.1
Gentamicin Sulphate	1405-41-0	<0.01
Glucose	50-99-7	<0.1
Human Serum Albumin		<1
Magnesium Sulphate	7487-88-9	<0.1
Phenol Red (1031 only)	34487-61-1	<0.01
Potassium Chloride	7447-40-7	<0.1
Sodium Bicarbonate	144-55-8	<1
Sodium Chloride	7647-14-5	<1
Sodium Phosphate monobasic	10049-21-5	<0.1
Sodium Pyruvate	113-24-6	<0.1
SSR® (Synthetic Serum Replacement)*		<0.01
Water		>90

\* Contains Human Insulin recombinant.

### **Leibovitz's L-15 Medium + GlutaMAX™ - Gibco, Bleiswijk, Netherlands, ref. #31415-029**

Use in clinical practice reported by Isachenko et al. [2]

<b>Components</b>	<b>Molecular Weight</b>	<b>mM</b>
Glycine	75.0	2.6666667
L-Alanine	89.0	2.52809
L-Alanyl-L-Glutamine	217.0	2.0552995
L-Arginine	174.0	2.8735633
L-Asparagine	132.0	1.8939394
L-Cysteine	121.0	0.9917355
L-Histidine	155.0	1.6129032
L-Isoleucine	131.0	1.908397
L-Leucine	131.0	0.9541985
L-Lysine	146.0	0.51369864
L-Methionine	149.0	0.5033557
L-Phenylalanine	165.0	0.75757575
L-Serine	105.0	1.9047619
L-Threonine	119.0	2.5210085
L-Tryptophan	204.0	0.09803922
L-Tyrosine	181.0	1.6574585

L-Valine	117.0	0.85470086
Choline chloride	140.0	0.007142857
D-Calcium pantothenate	477.0	0.002096436
Folic Acid	441.0	0.0022675737
Niacinamide	122.0	0.008196721
Pyridoxine hydrochloride	206.0	0.004854369
Riboflavin 5'-phosphate Na	478.0	2.0920503E-4
Thiamine monophosphate	442.0	0.0022624435
i-Inositol	180.0	0.011111111
Calcium Chloride (CaCl <sub>2</sub> ) (anhyd.)	111.0	1.2612612
Magnesium Chloride (anhydrous)	95.0	0.9863158
Magnesium Sulfate (MgSO <sub>4</sub> ) (anhyd.)	120.0	0.8139166
Potassium Chloride (KCl)	75.0	5.3333335
Potassium Phosphate monobasic (KH <sub>2</sub> PO <sub>4</sub> )	136.0	0.44117647
Sodium Chloride (NaCl)	58.0	137.93103
Sodium Phosphate dibasic (Na <sub>2</sub> HPO <sub>4</sub> ) anhydrous	142.0	1.3380282
D+ Galactose	180.0	5.0
Phenol Red	376.4	0.026567481
Sodium Pyruvate	110.0	5.0

## References

1. Rosendahl M, Schmidt KT, Ernst E, Rasmussen PE, Loft A, Byskov AG et al. Cryopreservation of ovarian tissue for a decade in Denmark: a view of the technique. *Reproductive BioMedicine Online*. 2011;22(2):162-71. doi:<https://doi.org/10.1016/j.rbmo.2010.10.015>.
2. Isachenko V, Dittrich R, Keck G, Isachenko E, Rahimi G, van der Ven H et al. Cryopreservation of Ovarian Tissue: Detailed Description of Methods for Transport, Freezing and Thawing. *Geburtshilfe und Frauenheilkunde*. 2012;72(10):927-32. doi:<http://doi.org/10.1055/s-0032-1327812>.